

IPAR.003197

Thurs. July 21, 1960 Dep. N.H.

Fri. July 22 Crown Pt. State

Park, Preservation. Site in
afternoon walked over
Sections A-H, Raymond

1902. Bull. Amer. Paleont.,
v. 3, no. 14, p. 121. Colls. figd at
Gen. Sci. Univ.

Section A.
Viewed only the upper

part of the sequence above

Raymond - covered interval

of 1000 feet. *Maclureites*

in massive sandy beds.
No good for collecting

Section B-L, Raymond,

Still very sandy in
basal part

No good any coll.

C40-42

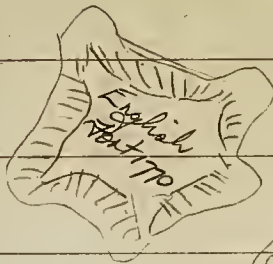
Small
Cliff

C30



Point
Rock

B17



Boiling
area

Ft. St. 170
Frederick

Terry Bridge

Lake Champlain

Road

C

N

500 ft.

Point

B-3. + two "Murchisonia" + 7/23/60
Stomatopora
B-4 + Orthoceras

B6. + Stomatopora

B7. Stomatopora of brachs.

B-17. Black River Fm. Black
massive lte having solitary
corals, brachs, gastropods, a
stomatopod (not collected), Trilobites

15 ft. above base of limestone
large colonies of tabulate
"Columnaria"

Section C-C.

lower part not productive of
fossils - very sandy.

C-23 Same as black

bed with large columns

of *Tryp.* in P.M. which
E. Cummings collected. Thin
lenses of calcarenite -
part black in black
bed which weathers
white

C-24

C-27. West of rubble dock

Tetradium, *Columnaria*

Stromatolium

Maclurites. No coll. made

These collections made in quarry

C 30. Base of the Trenton

List remainder of Colls. from Sect. C.
when unpacking

7/24/60

Chazy Quarry Section

Depth of quarry

(Dolomite?)

1.) Floor of quarry; ~~Sandstone~~, many

brachiopods of Rosticella type,

other frags. ————— 3" +

2.) Covered ————— 1' 3"

Dolomite?

3.) Ls., dark gray, fine grained sand-sizes,

alot of green-gray weathering sand

blebs and bands, 4 to 6" beds

separated by ^{more} 1/2" shaly partings,

which have more porosity (small spring)

————— 2 1/2' in Panetia

or Panetia Stant
Unit 5.

4.) Ls., dark gray, v.f. grained calcarenite or

calclutite, appreciable clay + salt -

argillaceous lime bed ————— 8'

7.) Ls., Light gray to med. gray, ^{black.} where ^{fresh}
6 to 8" beds, phytoplasmic or tetradium
beds, calcilutite with coarse
calcareous bands which
may contain "quartz" sand and
most of the fossils (brachiopods).

3'3"

road
main level of quarry.

8.) "Dove gray" Ls., calcilutite, massive
2 to 4 foot beds, scattered frags of
fossil shells, interbedded with
massive v.f. calcarenite, having more
common fossils. near top of unit

calclutite and calcarenite lithologies

are intermixed in irregular lenses.

14'

9.) Limestone, shales, wavy bedding,

much mud in shaly partings, 2" to 4"

beds. Quarryman's 26 inch shaly layer.

Vie Chaumont.

2' 2"

↓ ?
Trenton?

10.) Calcarenites, bas. gray, f. to med. sand

size, ^{calcin} grains, irregular bedding surfaces,

poorly sorted fossil hash,

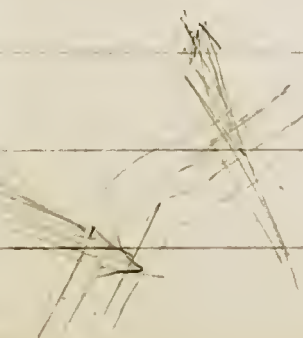
tetracorals, algae, small Stromatolites,

brachiopods, gastropods, the most

fossiliferous of all of this sequence.

beds 2 to 6 feet thick, separated by
1/2 inch shaly partings. — 16 feet
covered by glacial sand and
conglomerates above 10 to 15 feet

Ordovician rocks here dip about
5 or 6° to the NNW although there
seems to be a shallow syncline
across the ^{North} face of the Quarry so
that the dip varies slightly.



to the
flexures
in the

7/24/60

Type

Chazy Sec. Bone not exposed

Set W. A. A. Brainerd

Coll. Chazy l. ^{fully} ^{of tabular}
Saccharoidal ls. ^{base}

interbedded w. coarse

calcareous w. pebbles

ss.

Coll. 2 - 6 feet up in fossil bed

"crinoidal columnar conglomerate"

3. 2 ft. Fine siltstone

w. fine siltstone brachs.

4 pebbles, ^{oolites brachs.} lt. grey mudstone

4. lt. grey calcareous

brachs.

12.2f

Brainard, Egnor, & Sperry H.M.

Chazy Rocks:

Vol. 2, 1888, no 15,

p. 323 - 330

D & H. 12th

Napoleon B.S.

Brook

Long

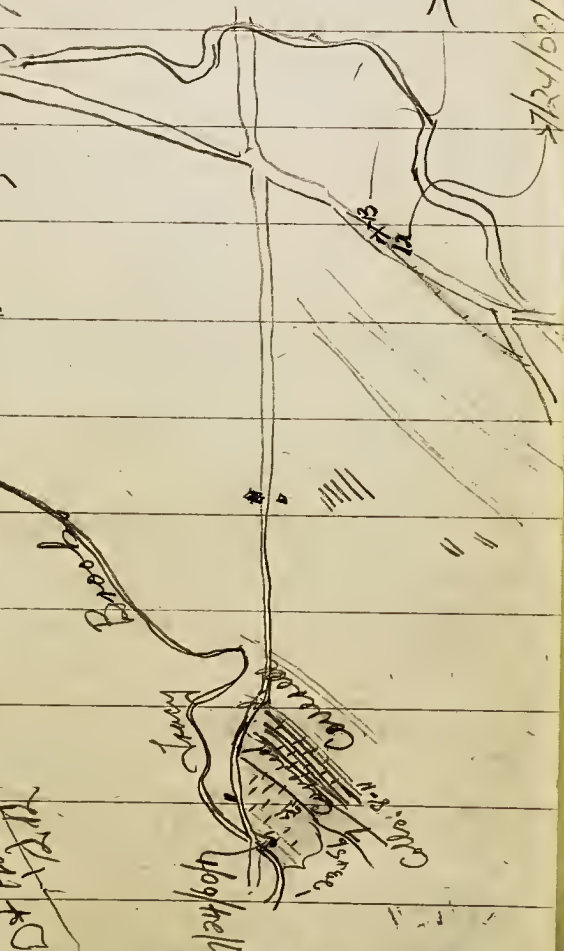
uphill

Covered

Col. 8-11
H. 19-20
H. 21-22

> 7/24/00/3

> 7/24/00/12



7/24/60

5. Beach. hash.

Coarse calcarenite

Coll. 5. med 2 1/2 ft.

6. Weathers nubly
silty ls. bracks. Jew Bay
4 ft.

7. Coarsest interval
marsh at Lake Valley 27
ft.

8. Part of small

coll.

Small - coarse calc.

Thinly bedded
15 ft.

9. Fine shell thin

Coll. 4 ft. 4 ft.

Calcareous.

7/24/60

10. Fine saccharoidal

ls. Dense. Heavy.

No fossils ^{Marine V. d.}
15 ft. ^{10-15 ft.}

11. 2.5 ft. ^{white}
crinoids, tubularites,

few brachs, fine
calcareous.

Old quarry Rte 348
N.Y.

Coll. 121

Near telephone pole.

End of quarry.

Coll. B 15 yds north of
telephone pole. Near N.
end of quarry.

In the field we couldn't
get Brainerd & Seeley's or
Osley's sections to fit in
w. field occurrence.

Osley did not remeasure
Brainerd & Seeley's sections
B-B-C-C. My section
is pretty much across the
line of section taken by
Osley but I doubt if it
can match the section

In 7/24/60/13 there is
a tetraconal. This late

would ^{it} be in C-C. of

B & S? — If H. Duncan is
correct this late is at least ^{Howells} middle

July 25.

Night of July 24 spent on
Saranac R. at Cashville.
Very nice spring at foot of
hill.

Morning July 25 Shipped
120 lbs rocks from Plattsburgh,
Dep. for Watertown via
U.S. 3. Again impressed
by ~~pub~~ Municipal facilities
ie. beach etc. at Lake
Saranac, Lake Tupper.
Look at exposures between
Watertown & Rodman.

to Sandy Creek Municipal
park. Pine forest with
excellent camping facilities
No collections!

July 26, Tuesday, 7/26/60

East of Rodman.

Long Stream. Exposures
under bridge & up creek
above stream's junction with
Sandy Creek. Upper Coburg.

See Kay, 1933, Am. J. Sci. 26, p.

Coll. 1. Dense med. grey lste
(calcarenite) having mainly
brachiopods. 4 ft.

Coll. 2. Dense med-grey
lste. (calcarenite) of

shell hash. lenses of
crinoid columnals & ~~trilobites~~
abundant

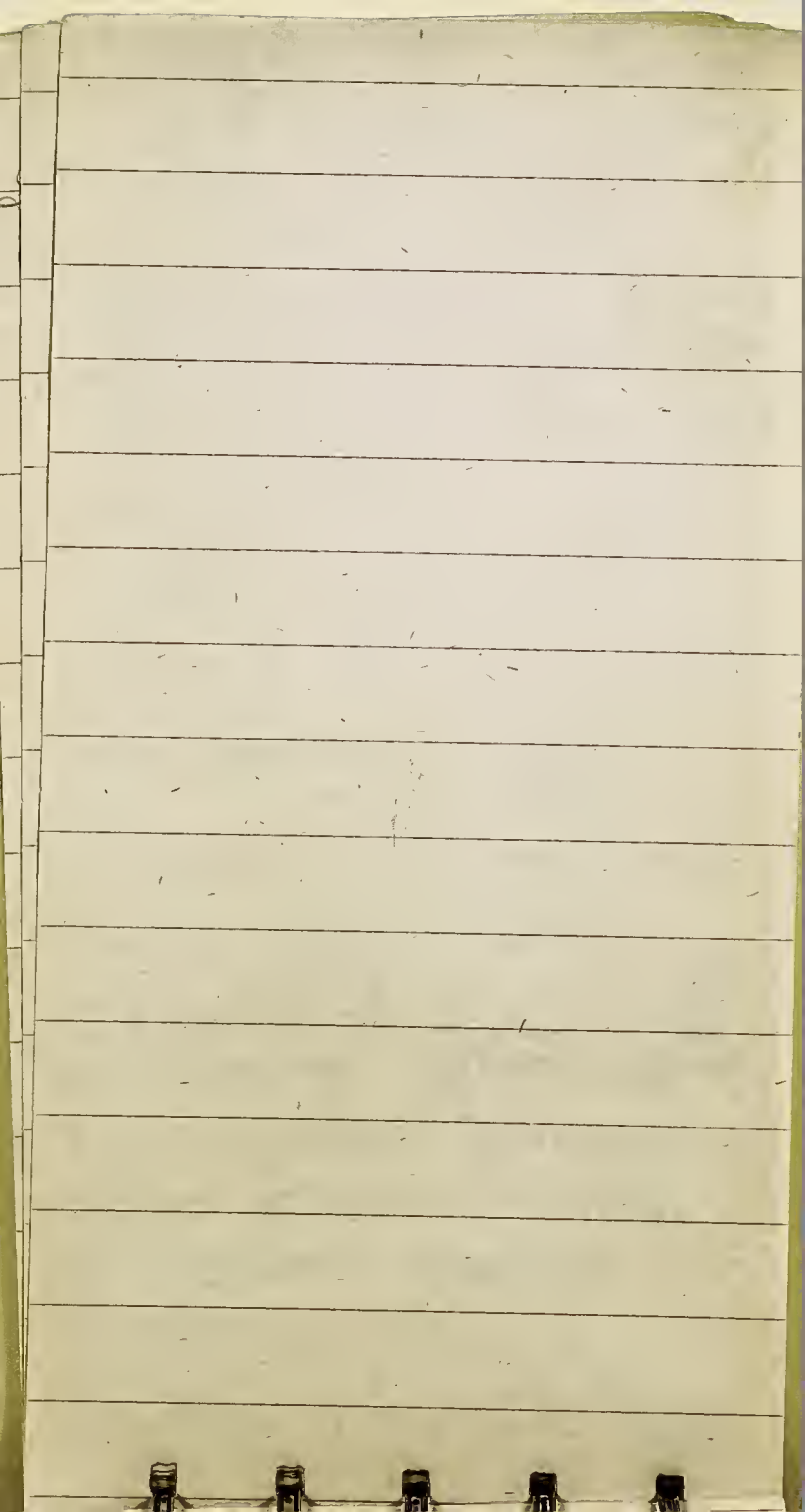
Brach. not abund - only colonial coral.

Coll. 3. Med. grey calcarenite

weathers mottled

having "leptaena", *Schuchertella*.

Strophomena. 15 ft Some



Coll. 4. Calcarenite -
calcareous having
"gastropod" v. abundant
some brachs. Bry. v. int.
absent

7/26/60.

Quarry at Copenhagen
Coll. 5.

Just west of Pleasant Lake 7/26/60

Coll. 7 8 ft from Base of
Sect. 1

See loc. map
over page

Coll. 6 Unit 3

Unit 1. Interbedded calcarenite
& calcilitite, & oil-stone
brachs. pred. in fossil
lenses. Individual calcarenite
beds 1"-2" thick, shale $\frac{1}{2}$ "-1"
thick (lenticular). Shale & lense
surfaces rippled marked.

Beds in lower part of section
weather grey brown & light
grey. Most grey on fresh
surface.

Unit 1 is 16 ft
Coll. 7 8 ft from base thick
Unit 2 - 5 ft thick

thick calcarenite massive

beds. 8-12" thick, + 7/26/60
interbedded sh. & thin
calcareous 1"-3" thick
These beds are v. lenticular

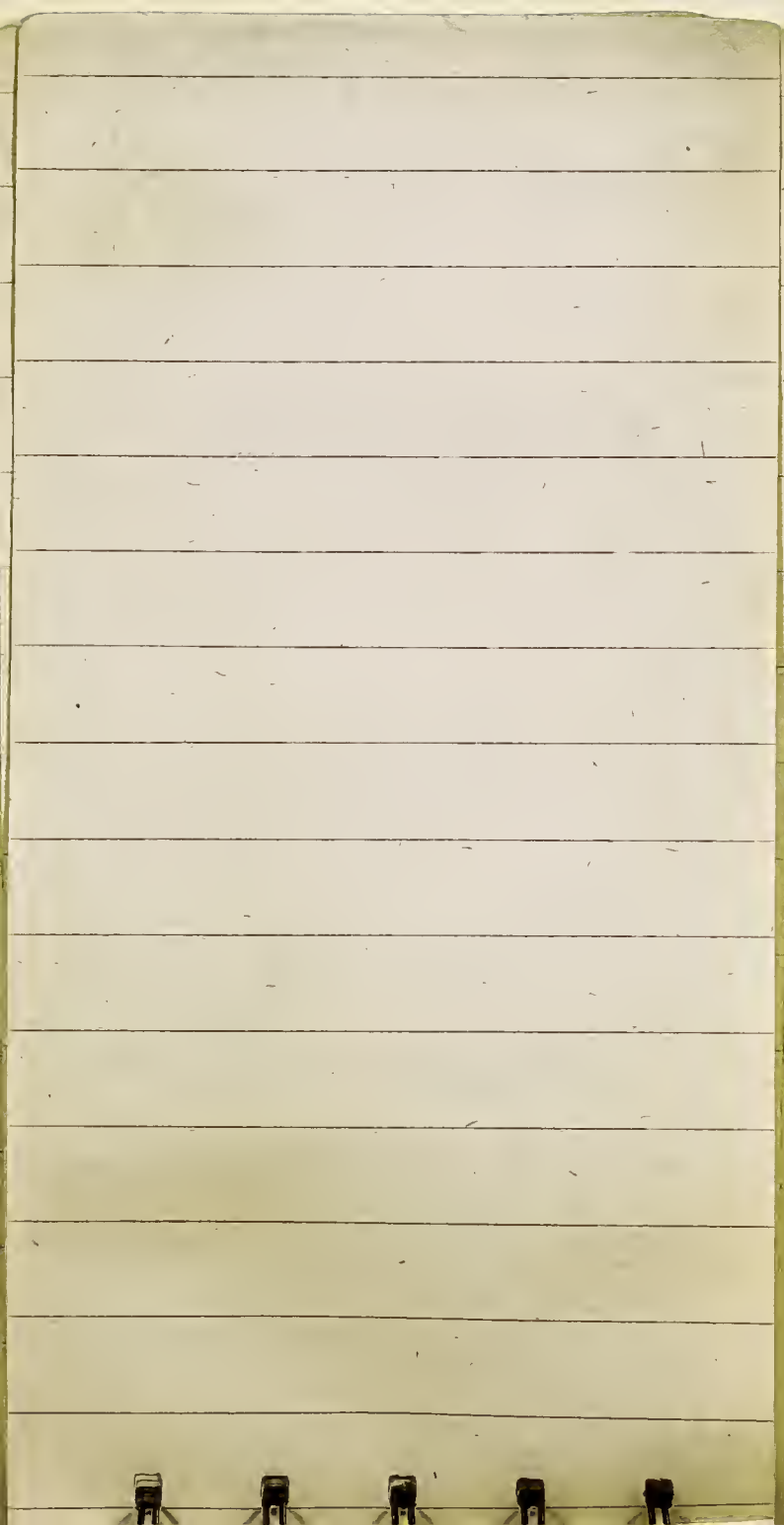
Unit 3. — 9½ ft.

Rapidly thinning late
shale. Mainly late.
beds 2"-3". Top of unit
marked by a re-entrant
of weathered sh. & some
late & 18 ins zone Coll. 6
at level of re-entrant.
Cryptolithus *Constellaria*.

Unit 4. — 10 ft. thick

Same as unit

below again marked
by shale re-entrant
6' at top



Unit 5. - 8 ft. 7/26/60

later as bedding in

unit 3. Narrow re-entrants
3' thick (shale) at 3 ft
level. at 3 ft., 2 ft + 3 ft
from base of unit.

7/26/60

Canal at town of
Black River

Blue grey ls. w
Pyrrozois, & "Columnaria"
bl. chert nodules

Coll. 8 - Columnaria

Approaching Calcium from
town of Black River. 1 1/4 ml. W. N. Y 26
Same as Black River Unit 1. 4 ft thick

Coll 9. Wave of sp. 21.1

W. wave, bedding - blue
sh. ls. & chert nodules, Columnaria
horn corals near top
Unit 2. 2 ft thick

Same as before but large ls
Black chert nodules common

Coll. 10 Unit 3. 6 in thick

W. wave, chert

Trilobium

12/6/60

Cut 200yd So of Calcarum

top

birdseye ls.

3' silt ls, 1" beds between $\frac{1}{4}$ " shaly beds

4' dovegray 6" to 3' foot beds

2½' slabby siltstone & thin calcarenite

4' dovegray, calcarenite, 4" to 2' beds

bryozoan
beds

3' Calcarum, med. gy. weathering, 6 to 10" beds

RR bed.

Intrusion congl. 7/26/60
 near base of chert - large
 mud blebs in fine calcarenite
 matrix

↑ N.

Seyford
Corners.

Hill - Coll. 7/26/60

{ Coll. 9
 9A
 10

Calcium

Railroad cut
 (See Cushing's
 measurement of
 section.

Coll. made by
 (RBN. renumbered)
 7/26/60/11.

7/27/60

King's Falls, Deer River

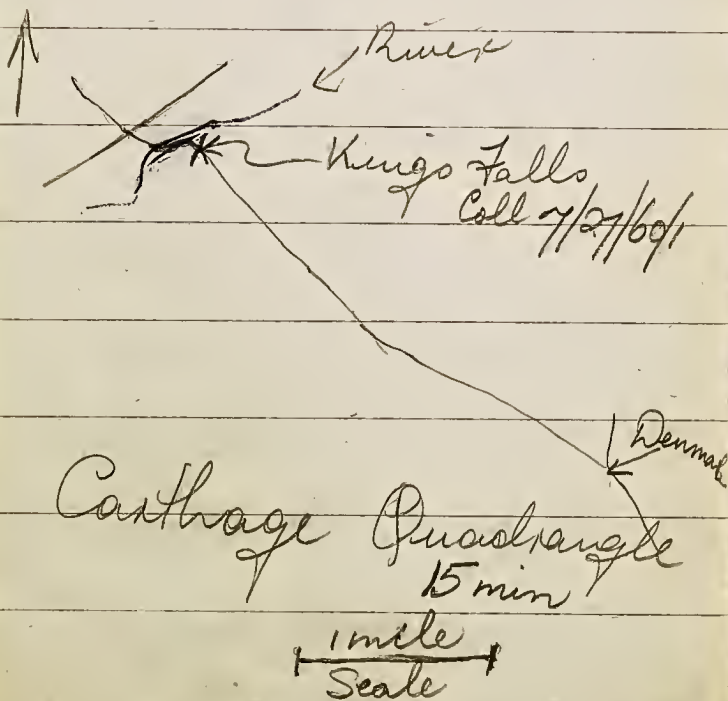
ledge at base of abutment
3 ft above water level.

Prasopora, dalmanellids,
large isotelids: abundant,
also smaller Bry., large
Hebertella? Section at

least 40 ft ^{thick} above river
level. V. similar to

that near Pleasant Lake 7/26/60
Coll. 1. mainly Prasopora

See loc. map over page.



To location see map ^{over page} 7/27/60

1 ml. S. of Rte 3 at Big Bend
hedge former at & surface
for several miles.

8 ft exposed in road cut

~~rubble layer~~ → rubble layer w. a heavy
gastropod calcarenite 6" ^{crust}

8" Tetradium - phytoparas

birdseye

No. coll

1/2 ml. further S.

4 ft outcrop on east side of
road low set of ledges.

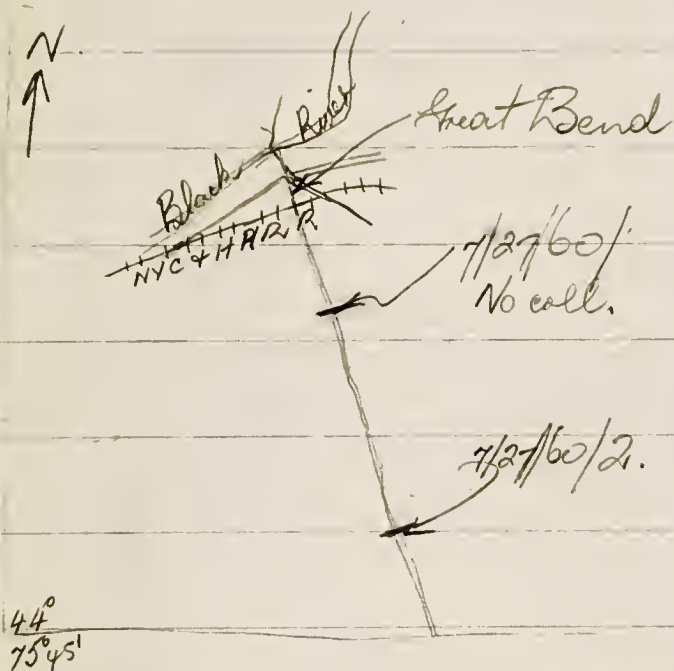
black ~~lake~~ rubble coll. 2
• • • chert
birdseye.

Southernmost exposure shows
faulting of late.

Near Champion Huddle 7/27/60
Coll. 3. Nautiloid, Bry., corals.

Coll. 3A. Flat with
Stictoporoids.

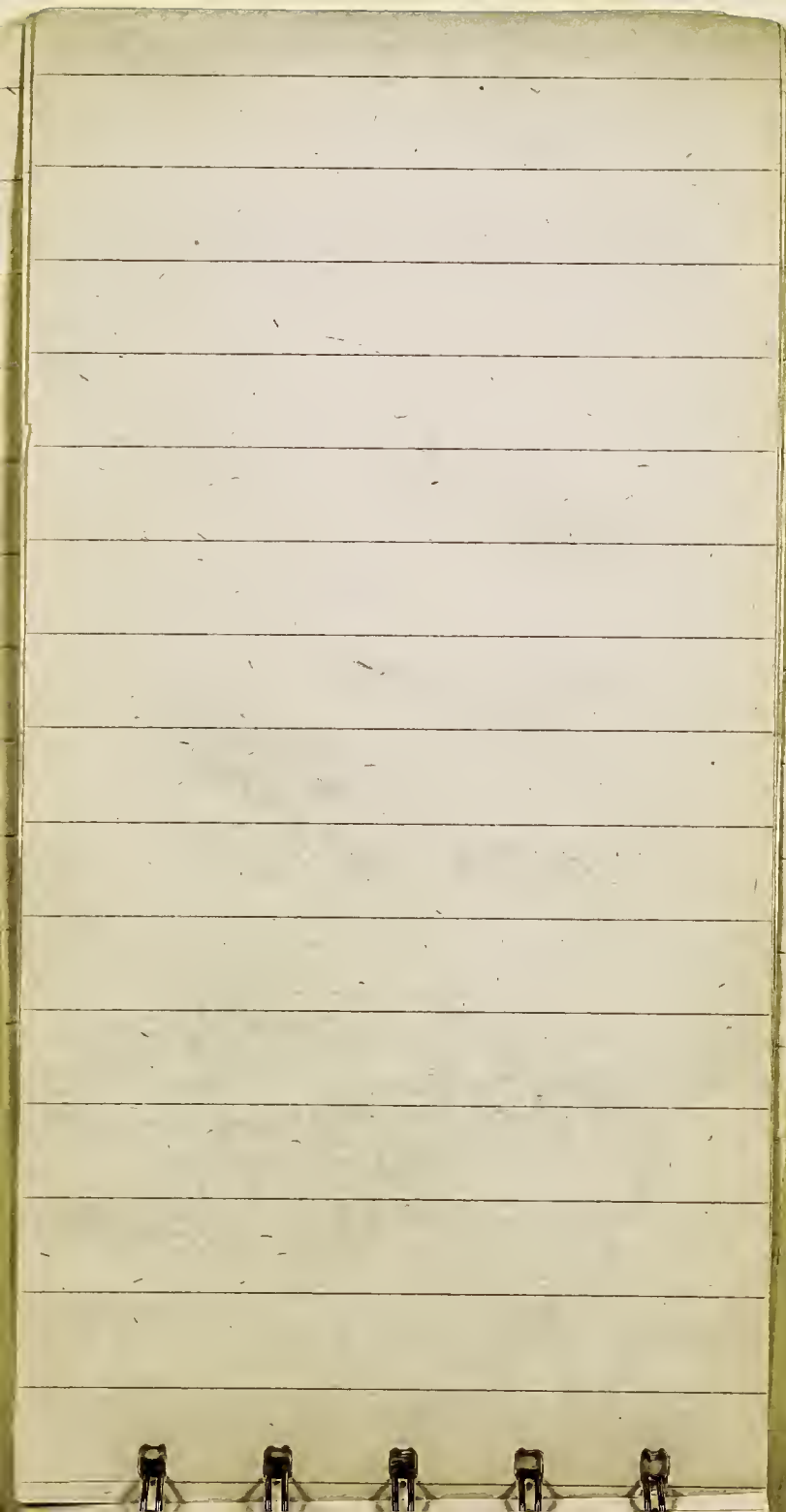
Exposure on W. side of road 8 ft.
Silty calcarenite & calcilutite (lt. grey)
Rockland Fm. 77.



Antwerp 15 min. quadrangle.

Scale
1 mile

Taken from Bull 206, N.Y. St. Mus.
1934. Buddlington & Ruesterman.



7/27/60.

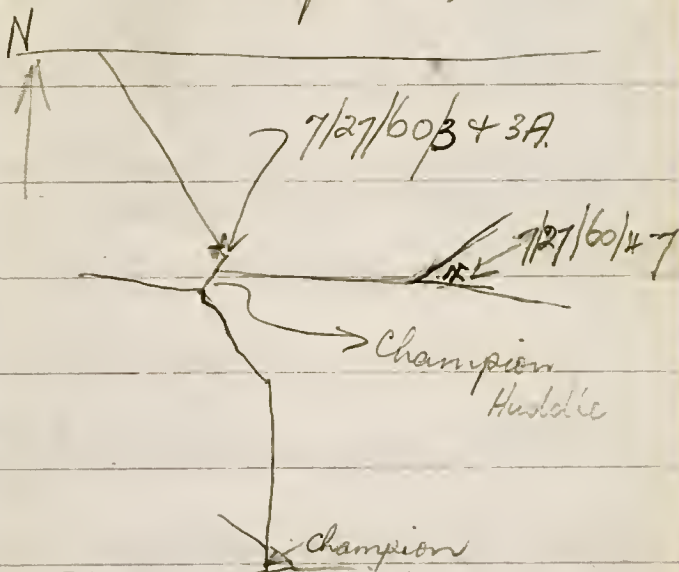
Coll. 4.

Coll. 5

Col. 6,

Coll. 7

Abandoned quarry
near Champion, N.Y.



N.Y. St. Mus. Bull. 296, 1934.

Carriage. 15 min. quarry

N.Y. State
Scale.
1 mile

② cont., 2 silty-shale breaks, This
forms a prominent weak zone in the
quarry wall. ——— $2\frac{1}{2}'$

③ Birdseye ls. dove gray calcilutite
massive bed ——— $2\frac{1}{2}'$

④ Calcilutite and Calcaremite interbedded &
intertongued, irregular bedding
Coll. 5
surfaces, weathers to 2 12" layers — $2'$

⑤ Calcilutite, med. gray, $\frac{1}{2}"$ to $2"$ beds,
shaly and
silty interbeds less than $\frac{1}{8}"$ thick,
bedding surfaces irregular, contorted
Coll. 6
perhaps by load slumping — $4'$

⑥ ^{med. gray} Calcaremite having calcilutite matrix,
3 to 4" beds, wavy bedding — 3'

⑦ Dove gray limestone, calcilutite,
6" to 1 foot beds, even bedding
surfaces compare to those below and
above — Coll. 7 — 2½

8.) like unit ⑥ — 7'

NY 331

7/28/60.

Road from Union to Lyons
Falls. Abandoned quarry

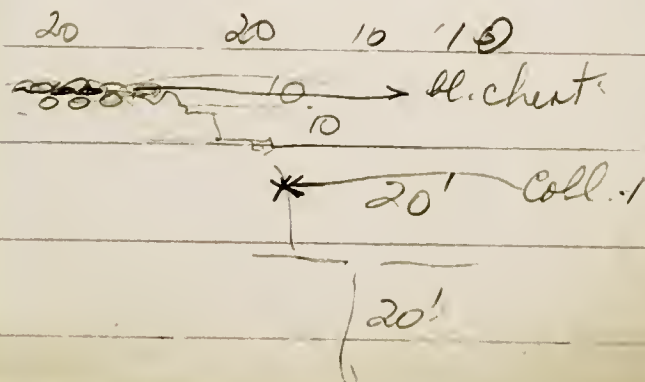
Coll. 1. [Horizon appears
to be same as Coll. 14
lithology & faunal assoc.]

7/27/60. Black River - howville

Higher on hill bridge

late ^{bl.} chert nodules

exposed. At creek crossing
near Union, (higher in section)
Trenton is
exposed.



7/28/60.

Sugar River

Coll. 2. 2ft. below falls.

Coll 3. 6 ft below Coll. 2.

Coll. 4. 4 ft below Coll. 3.

~~Coll. 4. 4 ft.~~

Discrete marked
long caireoid stems oriented. NE.

Coll. 5. 3ft above Portland Fm
4 ft below Coll. 4

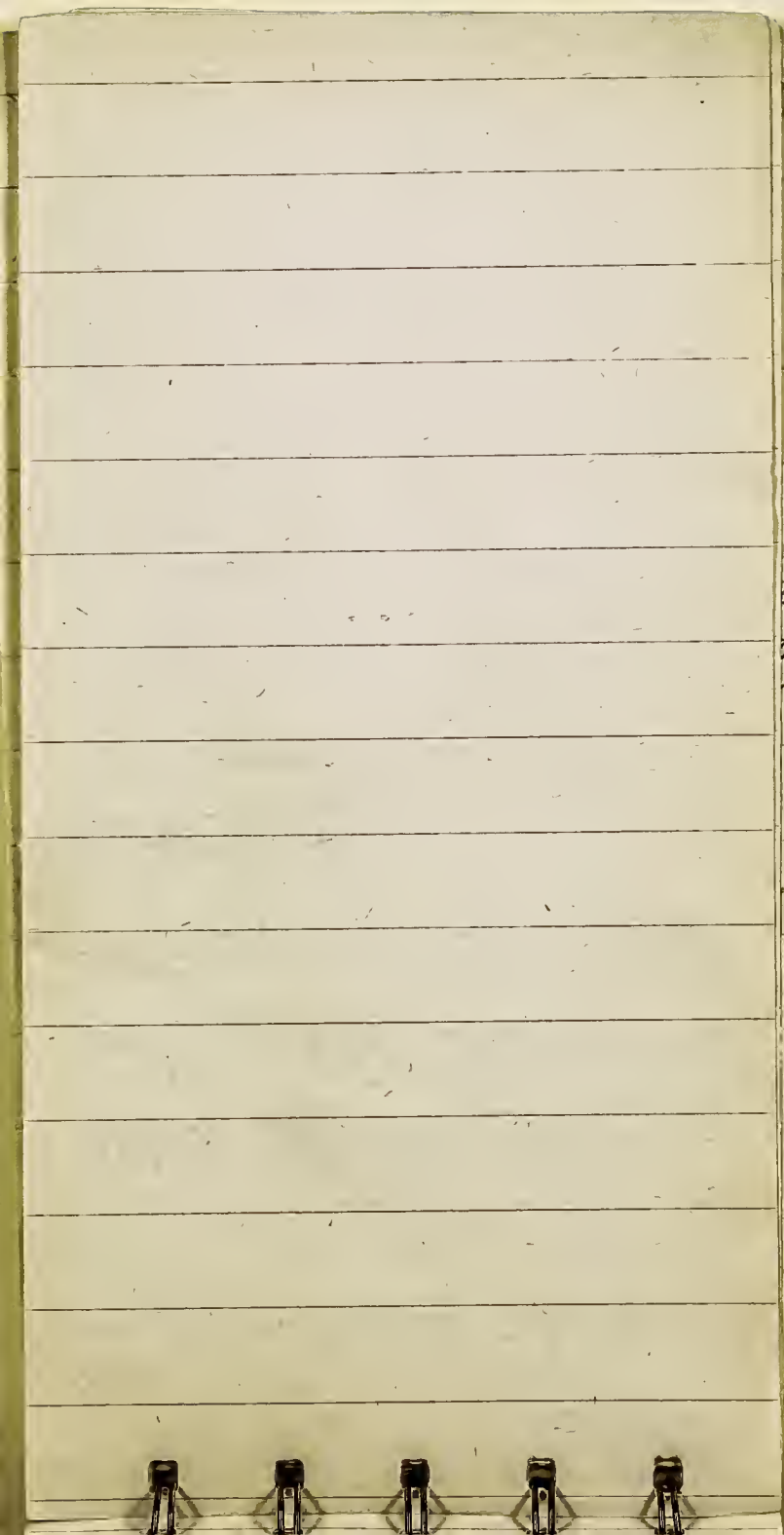
cyt. Horn corals, cypss. & small
stems of treps.

V. Shaly; brachs. v. abundant

Bay not abundant. Corals.

Abundant at Coll. 4.

inf



Prospect 7/28/60.
Top of section
Unit 1. Fine crinoidal calcarenite
Branches, few Bary. 4 ft.
V. Fine crinoid columns.

Coll. 6.

Unit 2.
Note. in quarry face 6 ft.

Unit 3. Coll. 7. 3 ft

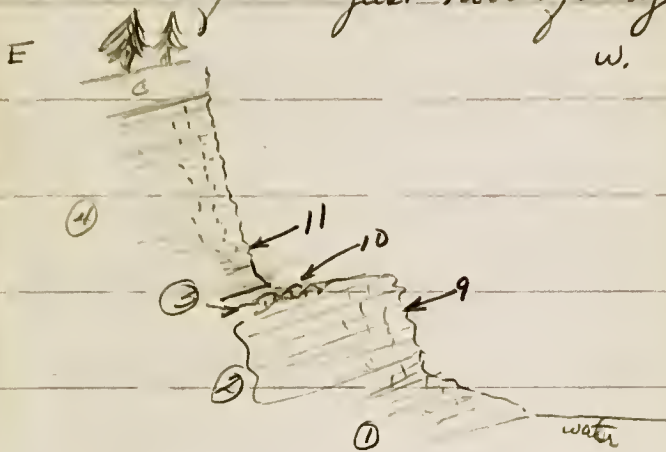
Black, fine calcarenite
in beds 1 ins to 6 ins thick
& bl. Sh ^{1"-2"} interbeds. Bary.
abundant. Sticks, buttons

Unit 4. Same as unit 3 but
beds more massive 6"-8"
each. Shale 1" beds.
Coll. 8. 5 ft

Unit 5.

Township of Prospect. River
on east side of town

Northside of Road just north of bridge



① Limestone, brown gray, ^{v. silty,} irregular bedding

2 to 4" thick, dark silty lenses which

look like poorly rounded chert zones,

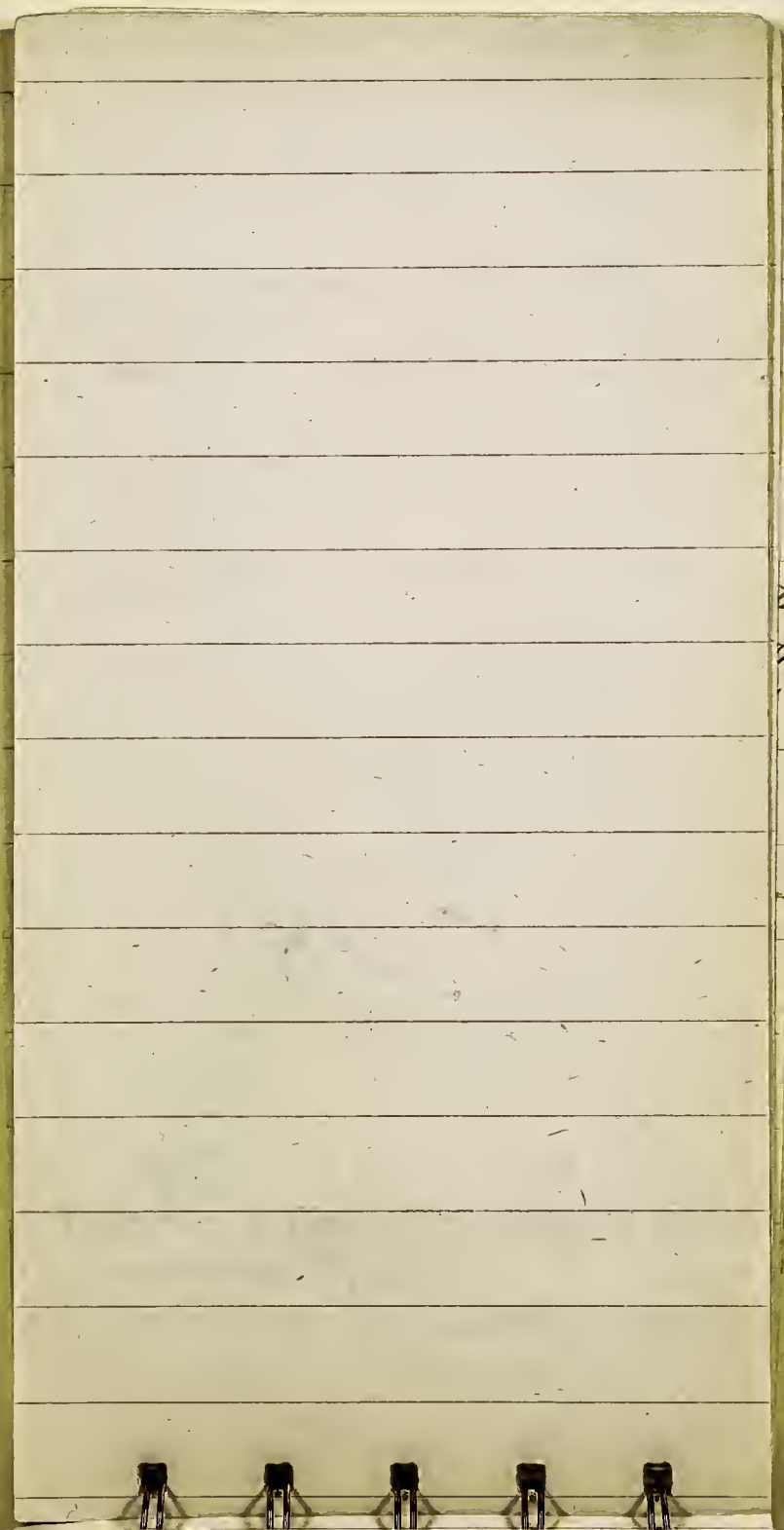
upper 2' feet lack these bands - 8' exposed

② Ls., calcilutite and a few calcarenite

lenses, shaly partings have Passerina

and other fossils, 4-6" beds Coll. 9

— 7'

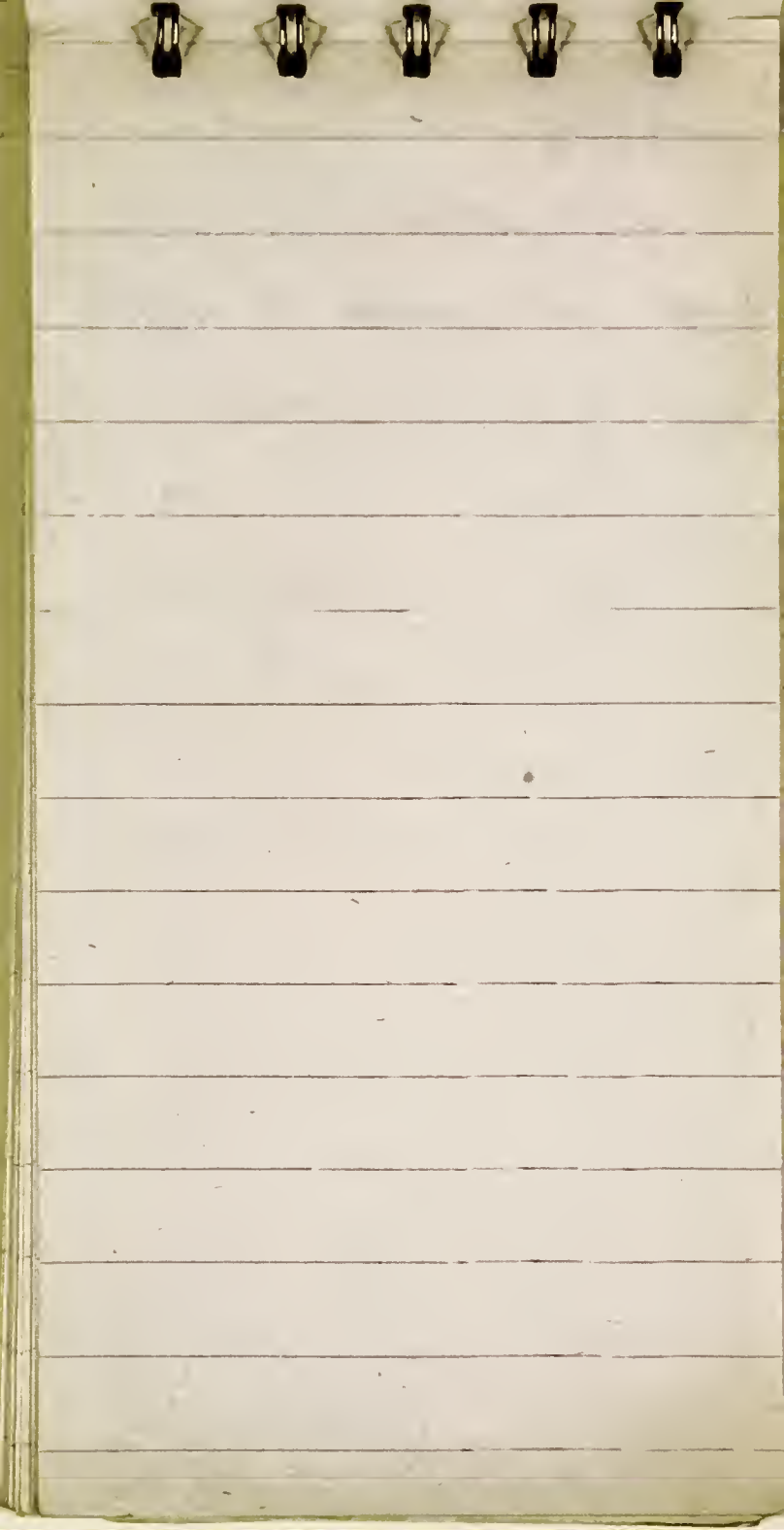


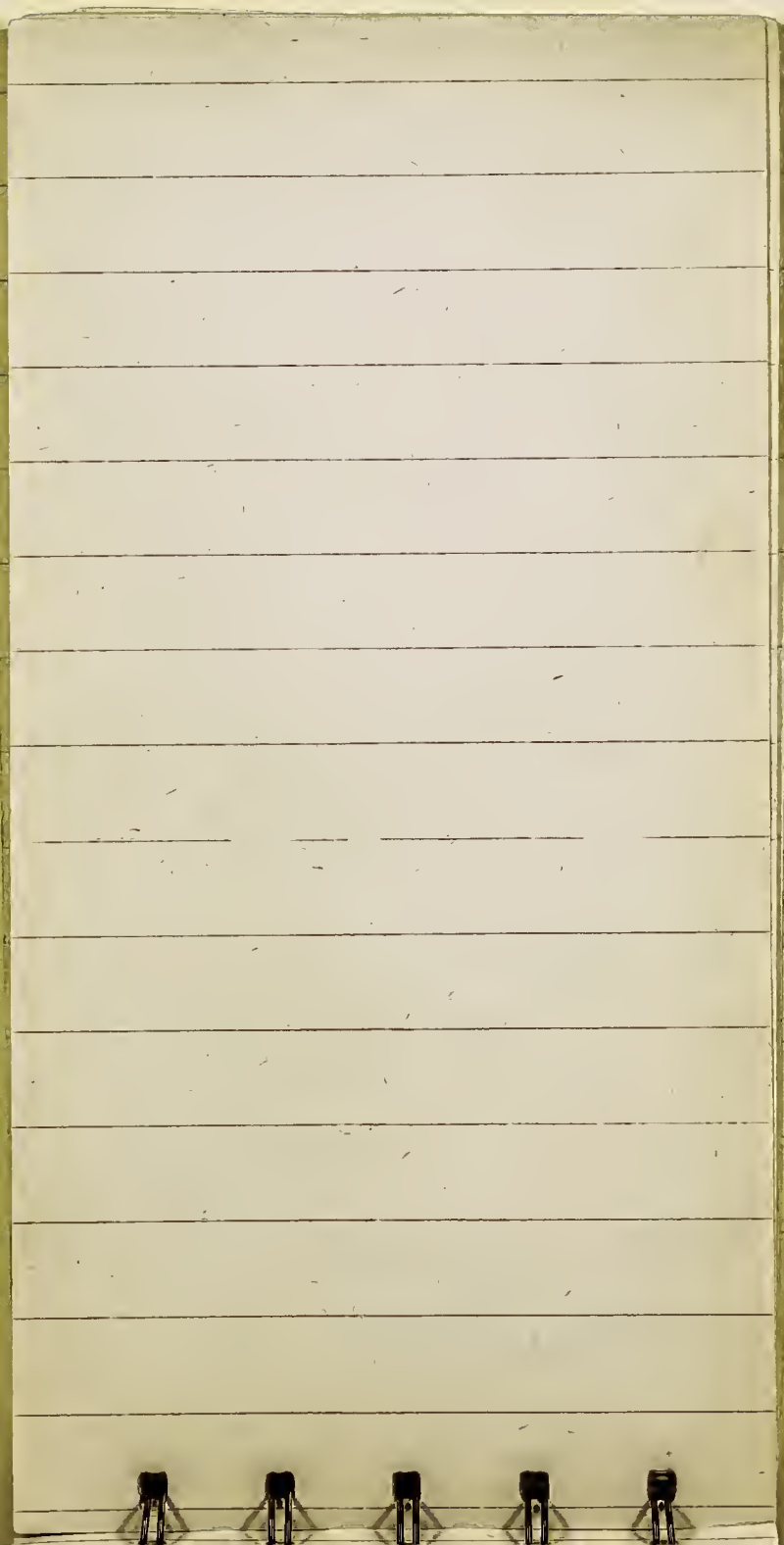
③ Calcareous, ^{v. dark gray, weathers brown}, v. shaly, irregular
beds, 2 to 4" thick, — 2'

Coll. 10

④ Calcareous, shaly, and some
calcelutite — v. dark gray, some
beds weathers light brown,
3" beds, $\frac{1}{2}$ " shale interbeds,
bedding is nearly planar here,
Coll. 11, dip 12 to 15 $\frac{1}{2}$ S.E., — 25'

Across the river the beds are
flexed in a S.W. trending direction
and we suggest a fault is
the control on the bend in the
river here.





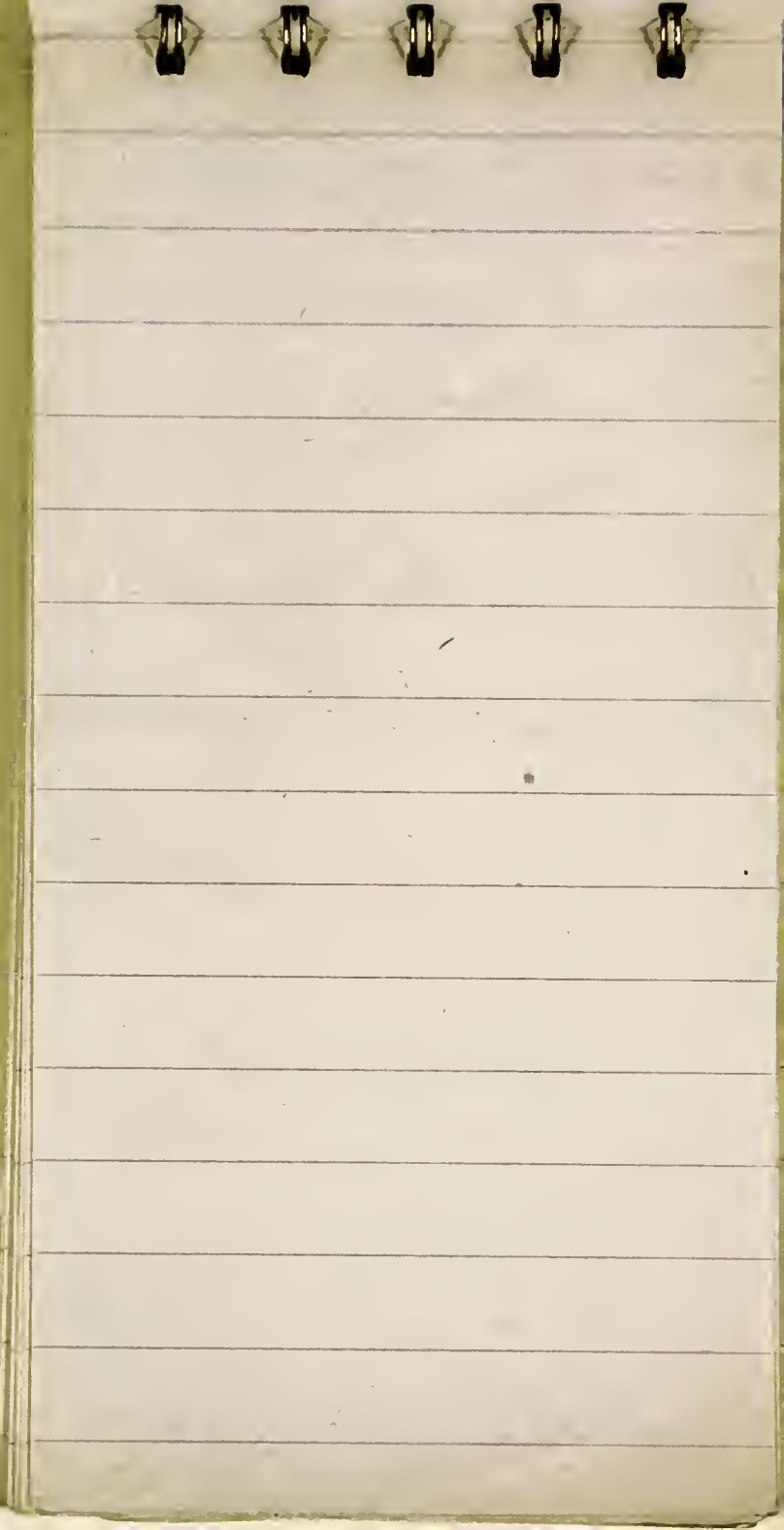
Trenton River 27-28-60.

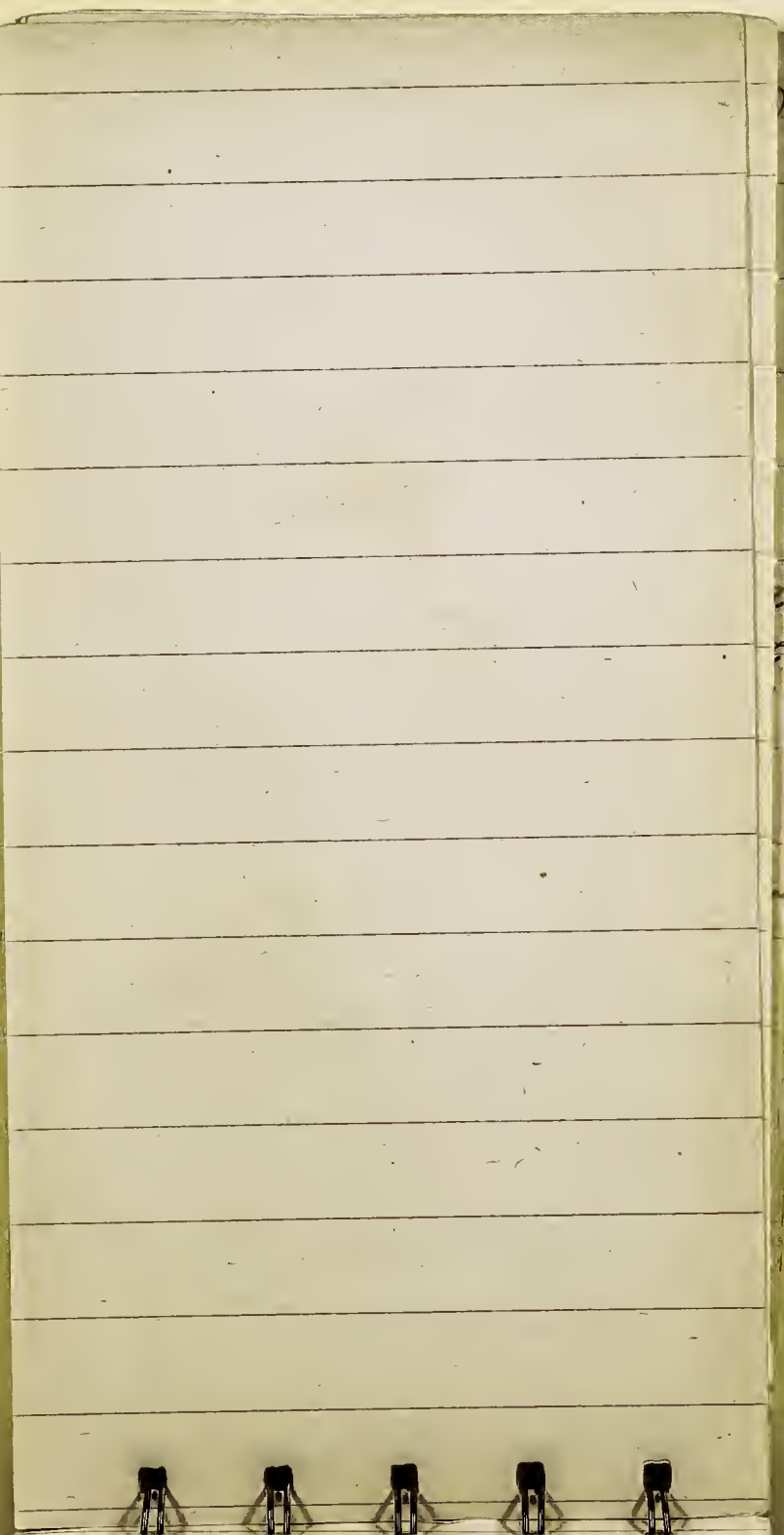
Outcrop in Trenton River at
bridge at Trenton Falls township
Beds outcrop N. side of bridge
below dam (spillway)

Coll. 12. 4 ft.

3 ft above spillway
calcite. Coll. 13. 3 ft.
large Teotichus gigas

Coll 14. Exposure in
road cut at entrance to
Mohawk Niagara Power
Corp. of 15 ft lower
Trenton (Polaris member)
Thin bedded.
Contains Prasopora





Niagara Mohawks 7/29/60.
D. Power Corp. W. Canada Co.
~~Clinton Valley~~

12 ft above Coll. 12, 7/29/60
3' thick calcarenite - fine
crinoid columnals &
orthoceroids abundant. Some
Bry. Coll. 1.

Coll 2. 5 ft.
15 ft above top of bed
crinoid plant.

Benton, Rafinesquina
Coll 3, in unit 12 ft.
Calcarenite (3'-6" beds)
& shale 3'-4' beds. w.
calcarenite on top

7/29/60.

Coll. 4.

7/30/60.

Patent Hollow.

No coll.

Middleville.

Coll. made due east of
village about 1 mile
on road to ~~to~~ Fairfield

Acc. to Cushing. N. Y. S. M. Bull. 77.
both Bl. R. (5-15 ft) & Trenton.

Middleville,

Coll. sect.

pto

Cushing's quadrangle
could be used for
topographic map
for localities around
Middleville.

7/31/60

Ingham Mills

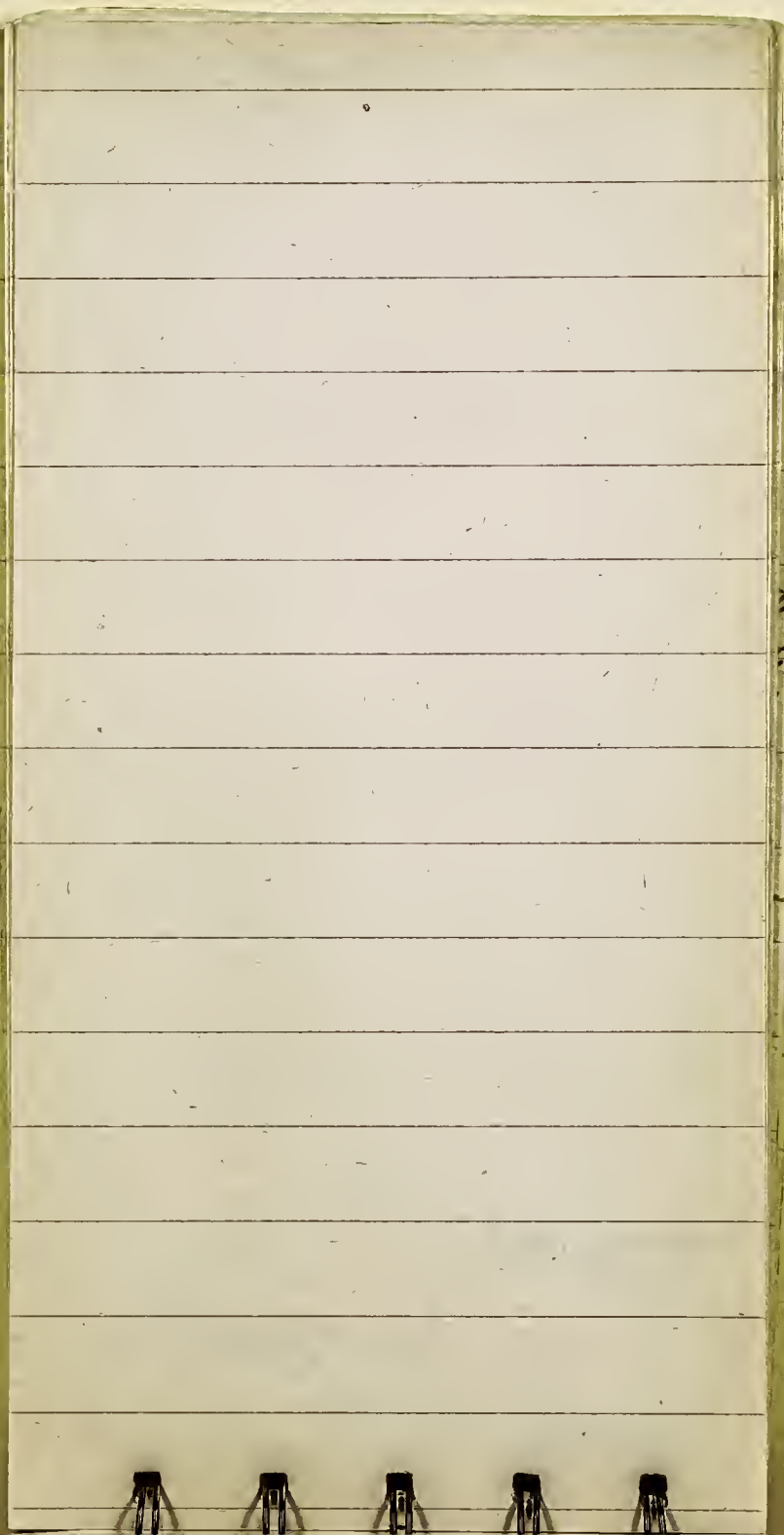
Never found outcrop

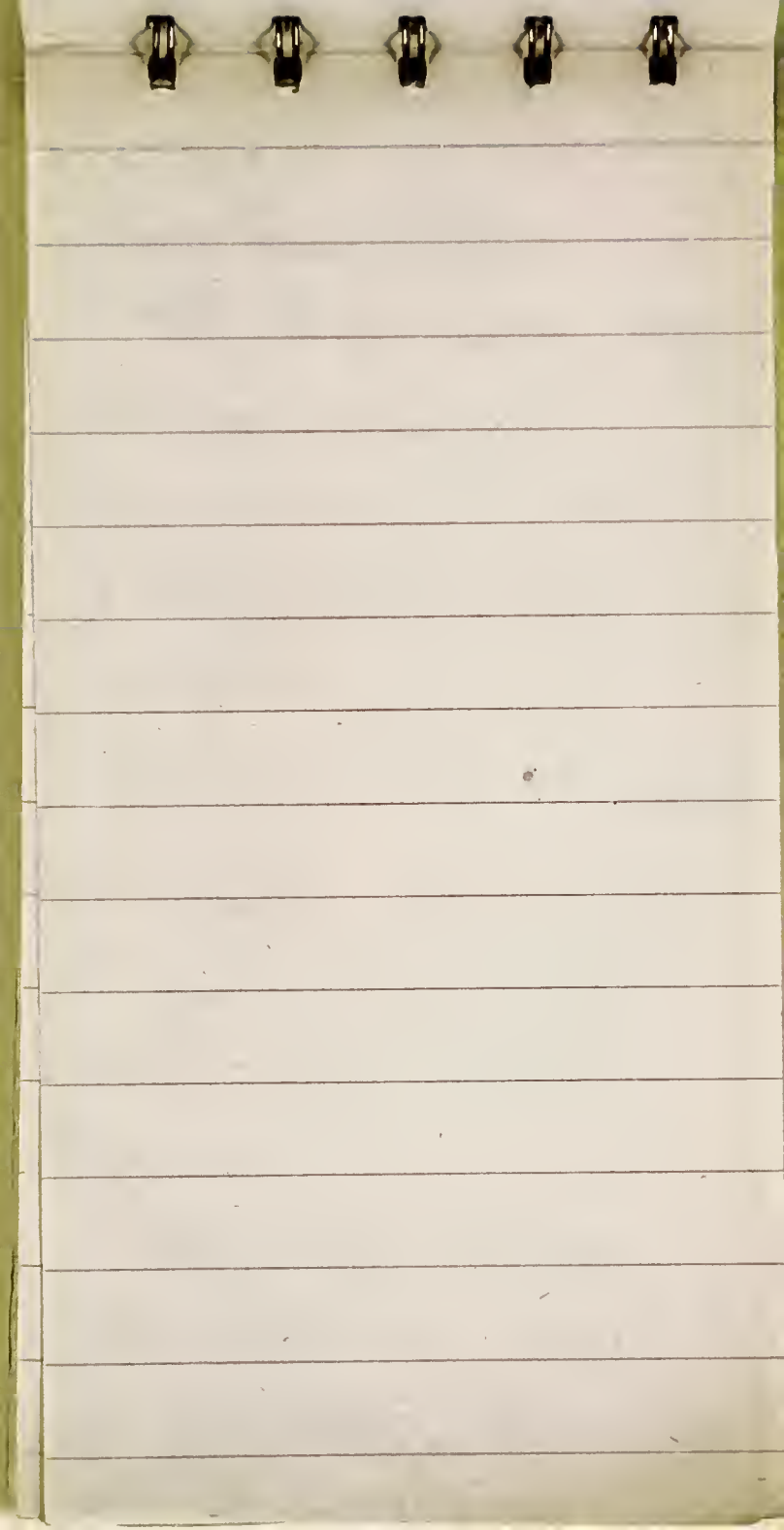
Dolgeville

8/1/60

Middletown -

New Haven.





Hypothesis No. 1.

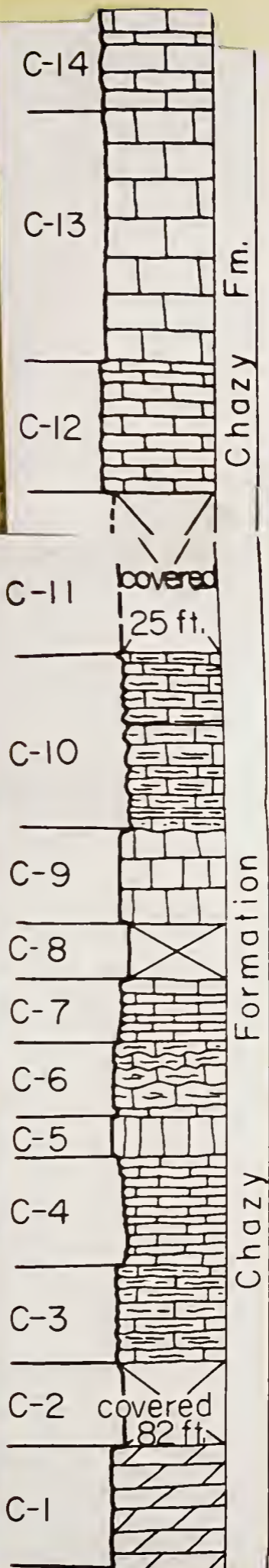
Note Oxley's type Chazy section does not commence at the base of Brainerd & Seely's section.

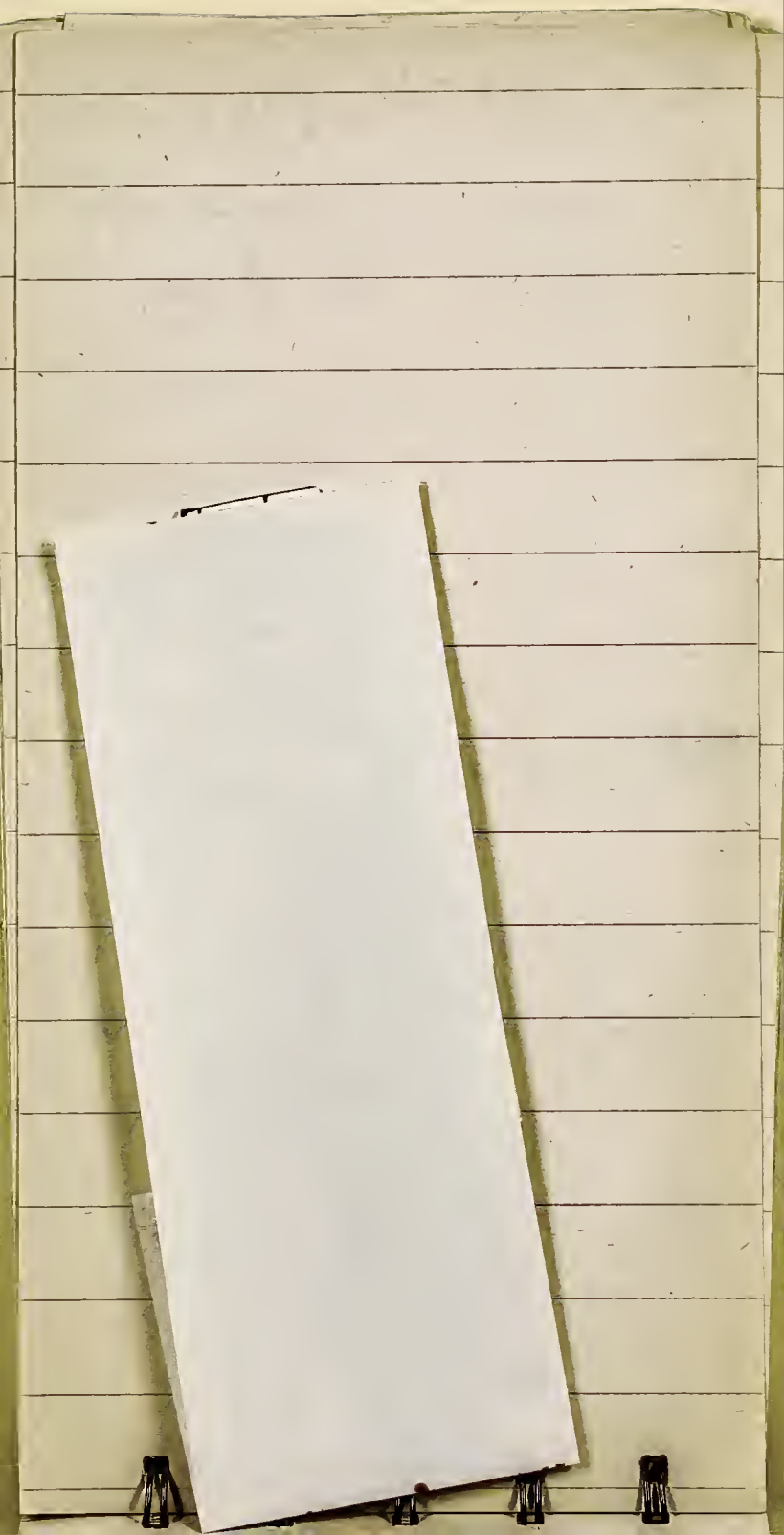
It appears that Coll. 7/24/60/13 (with rugose coral) is on the line of strike of 8/19/59/T (with rugose corals + Columnaria)

Now if these outcrops lie at the same level as 7/24/60/10 in Chazy quarry

& are the
8/19/59/The
landing
thus vice
as dipping
in various
due to g
(dip is a
with see
difficult
dip.

In Chazy Quarry
tetraoosol bed is 34 feet
above Rosticellula





& are the same as the etc.

8/19/59/Henton - Chazy
landing we would
thus visualize the beds
as dipping ~~shallowly~~
in various directions
due to gentle flexures
(dip is about $5-6^{\circ}$ &
with reefs etc. it is
difficult to offer exact
dir.

In Chazy Quarry
tetra coral bed is 34 feet
above Rosticellula

If project Rosticellula
bed up dip to Sheldon
have the relation
would be fine. The
etc. of Rosticellula at
8/19/59/H would not be
anomalous.

Prasopora occurs in
Unit 10 34 feet above
Rosticellula bed.

— i.e. in upper part of
Chazy = lower part
of Black River

